

7-5 The student will demonstrate an understanding of the classifications and properties of matter and the changes that matter undergoes. (Physical Science)

Key Concepts

Matter: atoms, elements, compounds, mixtures

Physical Properties: melting point, boiling point, density, color

Chemical Properties: reactivity, ability to burn, ability to rust

Elements: metals, nonmetals

Periodic Table: groups and families of elements

Common substances: chemical symbols, chemical formulas

Law of Conservation of Matter: balanced chemical equation, reactants, products

Acids and Bases: indicators, litmus paper, pH paper, phenolphthalein, pH

Physical changes: changes in size, shape, and state

Chemical changes: changes in color or temperature, formation of precipitate or gas